

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10534, 128
Source: IFWP
Date Processed by STIC: 8/14/06

ENTERED



IFWP

RAW SEQUENCE LISTING

DATE: 08/14/2006

PATENT APPLICATION: US/10/534,128

TIME: 12:28:12

Input Set : E:\SEQ LISTING.txt

Output Set: N:\CRF4\08142006\J534128.raw

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1 <110> APPLICANT: KOREA CHUNGANG EDUCATIONAL FOUNDATION
3 <120> TITLE OF INVENTION: Plant seed-specific expression promoter derived
from sesame and
4     seed-specific expression vector comprising the promoter
6 <130> FILE REFERENCE: Gn14288
C--> 8 <140> CURRENT APPLICATION NUMBER: US/10/534,128
C--> 8 <141> CURRENT FILING DATE: 2005-05-06
8 <150> PRIOR APPLICATION NUMBER: KR 10-2002-0069589
9 <151> PRIOR FILING DATE: 2002-11-11
11 <160> NUMBER OF SEQ ID NOS: 3
13 <170> SOFTWARE: KopatentIn 1.71
15 <210> SEQ ID NO: 1
16 <211> LENGTH: 3102
17 <212> TYPE: DNA
18 <213> ORGANISM: Sesamum indicum
20 <220> FEATURE:
21 <221> NAME/KEY: 5'UTR
22 <222> LOCATION: (1)..(1746)
24 <220> FEATURE:
25 <221> NAME/KEY: intron
26 <222> LOCATION: (149)..(1722)
28 <220> FEATURE:
29 <221> NAME/KEY: 3'UTR
30 <222> LOCATION: (2899)..(3102)
32 <400> SEQUENCE: 1
33
aacgccactc aaatatttca ccaccaccac caccagaaca ttcagaaaca agaaataaac      60
35
acacacacac tataaaacag ttcttgcgaa agaaggaaaag cgcttccgca gaagtgcctt      120
37
cacgcgattt ctctttccaa gttttcaggt aacgtgcccc cttttctctt ctcttctatt      180
39
ctcttttctc ataattcatg atcaatcttt gagtattttg gtgtttgtgt gtctcaagaa      240
41
aaccgcattt ttattttctt gcaatgggtg ctttatttcc tgctgttttt ttcagctatt      300
43
aatgttcttt tgatgtagat gaggtttaat cgtatgttct tgagctgcat tacctgatga      360
45
ttcatggatc tgaggaatgt atgcgatttt ttatttttgt tttatttttt ggtgggcttt      420
47
cccaagaaga atctatttgg ggttattctt gtgtggtttg gtgcaaactt ttggatttta      480
49
cgcagtattg gtgtctggac cacatgattg tgatcatttat atttggattt tgtctttatc      540
51

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tttgtatgca tgtgggatgc aggaagaaaa aactgtggta aatgtctttg aagagattga 53	600
tttagcatat atacaagggt gcctgggctt cagttttgat gattttgatg tacattgtgg 55	660
agatttgatg ggttgcattg ggctcaaata ttcttgtaag atttgttttt tgtccaaaaa 57	720
atttgggatt tttccacttt tattgaacag tagatctttt cctgtttcaa cccaaaagtt 59	780
atttcggttt gaagttttac atcatagata taattagtaa taaatttcgg ttaggtccgt 61	840
aaagaatcat taattacatc aattaatatt gtttaattgta caaaaagagg gaatttatgg 63	900
tgatatctat gaagccatgc tatgcctggc tggaattccg tcgatgaaaa agacagattc 65	960
cgggtgtgtg tagatttcac tgtagtgaa taccctactt caaagaacgg tgctgattca 67	1020
actgctctag tcttcaggat tttagtacta cttgtttgct gtttggaaca catggctgaa 69	1080
aataaatgtc tgcttttcga ccttggcgct tagagaattt actaccacat ctcattttta	1140

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71	gcaccccaac gatgatttct gctgtcagaa tgaatgaatt gactaagagc aactcgggta	1200
73	tttgagattg aattgggtgt ttgtgattgt tgttgatttg tttttgtcgt tatgatcttt	1260
75	tgaggtattc gccatacaat gctgatacta gtcgttggtga ttttccggta tatgtatttg	1320
77	tgacgtatcg ttctgtagtt tggtaactaa tagaatgcat gtggtggtaa ctaatagaat	1380
79	gcatgttgta gtaacaaatg cacattgtag attctcgtgg atttttcggg tgttcgttac	1440
81	cagcacattg ccgattctgg tatgattttt gtcgtgttca ttgttttagtt gcctttcttg	1500
83	gctgccacta tttcattgag aatgtaggac gttgttcgat gcaaaaagaac ttttgccgac	1560
85	tagaatgcag gtggcaatct ggaatctcct attatgggag gaactactgt aattgggagg	1620
87	ttttgattca gacaatctag taacagtcta gaagctactt tgcctttaaa tctcaatgac	1680
89	cttaaagccc atgatggaga catttgaatc catgttttgc aggtaaattg ggggaggcgt	1740
91	gacaaaatgg gagccggagg acgcatgtct gatccaacaa cgaaagacga acaaaaagaag	1800
93	aacccctcc aacgggtgcc ttacgcaaag cctccattca cactcgggta catcaagaag	1860
95	gccattccac cacactgctt cgagagatcc gtcagccgtt cgttctccta tgcgttttac	1920
97	gatctcgtca ttgttttctt tctctactac attgcgactt cttacttcca tctgctgcca	1980
99	tcccatact gctacctagc ttggcccatc tactgggctg tacaaggctg cgtttgacc	2040
101	ggaatctggg tcattgcca tgaatgtggc caccatgcat tcagcgatta ccagtggctt	2100
103	gacgacacag ttggcctcat cctgcactct gccctgctcg tgccctattt ctcatggaaa	2160
105	tacagccacc gccgccacca ctccaacact ggatcccttg agcgtgacga agtcttcgtc	2220
107	ccaaagccaa aatccagagt ctcgtggtac tccaaatact tgaacaatcc acttggcaga	2280
109	gtcatcacac ttgtgggttac tcttactctc ggttggcctc tatacttgct gtttaatgtc	2340
111	tctggcaggc cttacaaccg ttttgcattg cactttgacc catatgggtc aatatataat	2400
113	gaccgtgaga gacttcaaatt cttcatctcc gatgctggta taattgctgc tgtatgtgtg	2460
115	ctttatcgtg ttgctttggt caaagggttg gcttggctgg tatgtgttta tggggtagcg	2520
117	ttactcattg tcaacggttt ccttggtttg atcacattcc ttcagcacac tcacccttcg	2580
119	ttgccgcaat atgattcttc cgagtgggac tggctaaggg gagctcttgc aactgtcgac	2640
121	agagattatg ggggtgctaaa taagggtgttc cataacatca cagatacgca cgtgactcac	2700
123		

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caccttttct caacgatgcc acattacat gcaatggagg caactaaggc aatcaagccc      2760
125
atactgggcc agtattatca gtttgatgga accccgtttt acaaggcgat gtggagggag      2820
127
gcaaaggaat gtctgtatgt cgagccagac gagagtactc cagacaaggg tgtattctgg      2880
129
tacaagaaca agttctgaag ccgaataaca tgtggttagt gaaaatggcg tcttcttatt      2940
131
ttgtcctatg gagatggagg aacatcatca tgttttcttt ttcttcttat aagatgcgtc      3000
133
ctttgttagt gtattctctg catgtaataa aataaacttc tacccgaaac cttgtctgtg      3060
135
ctgggtcgat tctagttctg caataaattg tcaagtttag tg                          3102
138 <210> SEQ ID NO: 2
139 <211> LENGTH: 383
140 <212> TYPE: PRT
141 <213> ORGANISM: Sesamum indicum
143 <400> SEQUENCE: 2
144 Met Gly Ala Gly Gly Arg Met Ser Asp Pro Thr Thr Lys Asp Glu Gln
145   1           5           10           15
147 Lys Lys Asn Pro Leu Gln Arg Val Pro Tyr Ala Lys Pro Pro Phe Thr
148           20           25           30
150 Leu Gly Asp Ile Lys Lys Ala Ile Pro Pro His Cys Phe Glu Arg Ser
151           35           40           45
153 Val Ser Arg Ser Phe Ser Tyr Val Val Tyr Asp Leu Val Ile Val Phe
154           50           55           60
156 Leu Leu Tyr Tyr Ile Ala Thr Ser Tyr Phe His Leu Leu Pro Ser Pro
157   65           70           75           80
159 Tyr Cys Tyr Leu Ala Trp Pro Ile Tyr Trp Ala Val Gln Gly Cys Val

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160				85				90				95				
162	Cys	Thr	Gly	Ile	Trp	Val	Ile	Ala	His	Glu	Cys	Gly	His	His	Ala	Phe
163				100				105				110				
165	Ser	Asp	Tyr	Gln	Trp	Leu	Asp	Asp	Thr	Val	Gly	Leu	Ile	Leu	His	Ser
166			115				120				125					
168	Ala	Leu	Leu	Val	Pro	Tyr	Phe	Ser	Trp	Lys	Tyr	Ser	His	Arg	Arg	His
169		130					135				140					
171	His	Ser	Asn	Thr	Gly	Ser	Leu	Glu	Arg	Asp	Glu	Val	Phe	Val	Pro	Lys
172	145				150					155					160	
174	Pro	Lys	Ser	Arg	Val	Ser	Trp	Tyr	Ser	Lys	Tyr	Leu	Asn	Asn	Pro	Leu
175				165				170				175				
177	Gly	Arg	Val	Ile	Thr	Leu	Val	Val	Thr	Leu	Thr	Leu	Gly	Trp	Pro	Leu
178			180					185				190				
180	Tyr	Leu	Leu	Phe	Asn	Val	Ser	Gly	Arg	Pro	Tyr	Asn	Arg	Phe	Ala	Cys
181		195					200				205					
183	His	Phe	Asp	Pro	Tyr	Gly	Pro	Ile	Tyr	Asn	Asp	Arg	Glu	Arg	Leu	Gln
184		210				215				220						
186	Ile	Phe	Ile	Ser	Asp	Ala	Gly	Ile	Ile	Ala	Ala	Val	Cys	Val	Leu	Tyr
187	225				230					235					240	
189	Arg	Val	Ala	Leu	Val	Lys	Gly	Leu	Ala	Trp	Leu	Val	Cys	Val	Tyr	Gly
190				245				250				255				
192	Val	Pro	Leu	Leu	Ile	Val	Asn	Gly	Phe	Leu	Val	Leu	Ile	Thr	Phe	Leu
193			260				265					270				
195	Gln	His	Thr	His	Pro	Ser	Leu	Pro	His	Tyr	Asp	Ser	Ser	Glu	Trp	Asp
196		275					280				285					
198	Trp	Leu	Arg	Gly	Ala	Leu	Ala	Thr	Val	Asp	Arg	Asp	Tyr	Gly	Val	Leu
199		290				295				300						
201	Asn	Lys	Val	Phe	His	Asn	Ile	Thr	Asp	Thr	His	Val	Thr	His	His	Leu
202	305				310					315					320	
204	Phe	Ser	Thr	Met	Pro	His	Tyr	His	Ala	Met	Glu	Ala	Thr	Lys	Ala	Ile
205				325				330				335				
207	Lys	Pro	Ile	Leu	Gly	Gln	Tyr	Tyr	Gln	Phe	Asp	Gly	Thr	Pro	Phe	Tyr
208			340					345				350				
210	Lys	Ala	Met	Trp	Arg	Glu	Ala	Lys	Glu	Cys	Leu	Tyr	Val	Glu	Pro	Asp
211		355				360				365						
213	Glu	Ser	Thr	Pro	Asp	Lys	Gly	Val	Phe	Trp	Tyr	Lys	Asn	Lys	Phe	
214		370				375				380						

219 <210> SEQ ID NO: 3

220 <211> LENGTH: 660

221 <212> TYPE: DNA

222 <213> ORGANISM: Sesamum indicum

224 <220> FEATURE:

225 <221> NAME/KEY: promoter

226 <222> LOCATION: (1)..(660)

227 <223> OTHER INFORMATION: promoter of microsomal oleic acid desaturase coding gene

230 <400> SEQUENCE: 3

231

catatgtgaa atgtaattgga aaatgcgaca agaattgcaa tagagaaaat ccaatttgca 60

233

gagattacat gaaaagaatt tgtacaaata gcatatatat gttaaaatga aatgggacat 120

235

gccacattat gtggaataaaa aaagacaatt tgcttggaat taattataga ataaatgtgt 180

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237
tacatttaaat atgtgattaa tcactttttt tgaattgtac atctatcaca tgacaagttc      240
239
attatatattg acatataatt tgtttatgtc tagtcaagcc taattaaatt tctcggaaag      300
241
cacaaaattt ttttgccta accaggtttg aacaaccaa caaatcaca agcaggtgta      360
243
tcgcacttgc gatgtgatcg gtcacttttt cttaaattgta catcattcac acgacaactg      420
245
tatttgctgc caagttcaat tgagtgcggt tggagctata atttccttga acacacaatg      480
247
tggaatgtgc aactccatg tgggccaatg agcggatgac acgtggcggg caacttacct      540
249
cgttacgttg aggcattcat gaaaggggga tctcttgagg tggaggggtg ggggcggggg      600
251
ttgggggggg gccctcctc agacaggtct atatttatga gacctcgtaa ggcagaacgc      660
253
660
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VERIFICATION SUMMARY

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L:8 M:270 C: Current Application Number differs, Replaced Current Application No

L:8 M:271 C: Current Filing Date differs, Replaced Current Filing Date